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#### **ABSTRACT**

The potential for computer adaptive testing (CAT) has been well documented. In order to improve the efficiency of this process, it may be possible to utilize a neural network, or more specifically, a back propagation neural network. The paper asserts that in order to accomplish this end, it must be shown that grouping examinees by ability as determined by a two-parameter logistic model (or any other item response theory (IRT) model) may be replicated using a neural net. The data used for this study were collected as part of the 1993 summer orientation program conducted for incoming freshmen at a midwestern university. A mathematics test consisting of 40 five-response multiple-choice type items was administered to 1,615 freshmen. The process researchers followed involved several steps: (1) in attempt to determine the existence of a dominant factor (rather than strict unidimensionality); (2) using the BICAL3 program to obtain the ability estimates for the examinees and the difficulty and discrimination coefficients for the test items; (3) removing a sample from the group to train the neural net; and (4) using samples of examinees for which the response pattern and the group placement were known but samples that had not been used in training the neural net. It was discovered that the neural net procedure did manage to classify 80% of the subjects into the performance level groupings determined by the BICAL3 program. The most often missed classification was in the lowest performance level group. The limitations of the research are explored. It is concluded that this research does indicate that the neural net may be applied to testing. Four tables and four figures illustrate data. (MAS)

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Using Neural Net Technology to Enhance the Efficiency of a Computer Adaptive Testing Application

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#### Introduction

The potential for computer adaptive testing (CAT) has been well documented. In order to improve the efficiency of this process, it may be possible to utilize a neural network, or more specifically, a back propagation neural network. In order to accomplish this end, it must be shown that grouping examinees by ability as determined by a two-parameter logistic model (or any other item response theory (IRT) model) may be replicated by using a neural net.

Two assumptions underlie the application of the logistic model: (1) the performance of an examinee on an item can be explained by a set of latent traits and (2) the relationship between performance of the examinees and the set of latent traits can be described by a monotonically increasing function (Hamilton, Swaminathan, and Rogers; 1991). The two parameter logistic function is of the form

$$P_i(\theta) = \frac{1}{1 + e^{-Da_i(\theta - b_i)}}$$

where  $\theta$  is the ability of the examinee, a is the item discrimination parameter, b is the item difficulty parameter, and D is a scaling factor. It should be noted that in this form the numerator and denominator of the function have been divided by  $e^{Da_i(\theta-b_i)}$  (see Hamilton, et al, 1991). The properties that make this model useful in testing are that the item parameters are invariant with respect to the examinee group used to calibrate them and the estimate of an examinee's ability,  $\theta$ , is not dependent upon the items selected to measure this ability. It is also assumed that there is one dominant dimension of the trait being measured.

A neural net consists of multiple layers of nodes interconnected by paths leading from each of the nodes in one layer to each of the nodes in the next higher level of the net. The path from a node at a particular layer to a node at the next higher layer is weighted. This weight is an indication of the strength of association between the nodes. The lowest level of the network is called the input layer, the intermediate levels are known as the hidden layers, and the highest level is called the output layer. A neural net is trained with complete data in anticipation that the weights, and therefore the parameters determining the weights, stabilize (Gustafson, 1989).

The process of establishing these weights is called 'training' the neural net. This training takes place using a data set for which the outcomes are known. In this paper the net is trained using data for examinees, who have been grouped by a known performance level. The responses to each item on an examination become the input layer, with each item representing a node in this input layer. Each node in the output layer represents a different performance level group, where each examinee is placed in but one of these groups. The number of hidden layers may be varied, as may the number of nodes in these hidden layers. A diagram of a neural net is provided in Figure 1.



# Insert Figure 1 about here

A mathematical function is defined at each node where the domain of the function is the vector of weights from the next lower layer or the input values for the input layer. The range of this function is usually real numbers between zero and one. One commonly used function is the sigmoid function which can be written

$$F(z)=\frac{1}{1+e^{-cz}}.$$

This function approaches zero as z becomes negatively infinite. As z becomes positively infinite, the function approaches one. The derivative of this function is F(z) = cF(z) [1 - F(z)]. Therefore, the rate of change of the function is parabolic with respect to F(z).

In a three layer neural net with an input layer i; one hidden layer, j; and an output layer, the weights  $w_{ij}$  between the nodes on the i layer and the nodes on the j layer must be calculated, as must the weights,  $w_{jk}$ , between the nodes on the j layer and the nodes on the k layer. These weights are calculated so as to minimize the global error

 $E = \frac{\sum_{k} (d_k - y_k)^2}{2}$ , where  $d_k$  is the desired outcome and  $y_k$  is the actual outcome produced by the neural network at the k, or output, layer. The weights  $w_{ij}$  and  $w_{jk}$  are adjusted through the sigmoid function, F(z) described earlier, where  $z_j = \sum_{i} w_{ij} y_i$  and  $z_k = \sum_{j} w_{jk} y_j$ . This adjustment,  $\Delta w_{jk}$  (the change in the weights between the j layer and the k layer), is derived using the gradient descent technique as shown in Figure 2)

# Insert Figure 2 about here

After the change in weights,  $\Delta w_{jk}$ , between the j layer and k layer is derived, the result may be used to derive  $\Delta w_{ij}$ , the change in weights between the i layer and the j layer. This derivation is presented in Figure 3.

Insert Figure 3 about here



It is important to note that the change in the weights between the layers depends upon the output from the higher layers. This is the reason this model is called the back propagation neural net: the changes propagate back from the higher levels.

Although this is apparently the first application of neural net technology to CAT data, neural net models have been used in place of the more traditional statistical procedures for classification problems.. The results for studies by Scalia, Marconi, Ridelia, Arrigo, Mansi, and Mela (1989); Rosenblatt, Lelu, and Georgel (1989) and Nelson and Neff (1991) indicate the feasibility of this approach. In each case, an attempt is made to stabilize the net.

The data used for this study were collected as part of the 1993 Summer Orientation program conducted for incoming freshmen at a fairly large midwestern university (undergraduate enrollment of about 17,000 students). A mathematics test consisting of 40 five-response multiple-choice type items was administered to 1,615 freshmen. The test results are used to place students into appropriate mathematics courses suitable for satisfying the mathematics requirement for graduation.

#### **Procedures**

The process the researchers followed involved several steps. The first step was to attempt to determine the existence of a dominant factor (rather than strict unidimensionality). This was accomplished through factor analyses consisting of a principal components analysis and a principal axis solution for which a Varimax rotation was used. The Scree Test was used to help in determining the number of factors present for the data. The procedure Factor of SPSS, Release 4.1, for the VAX/VMS was used for the factor analyses. Problems associated with this means of testing for a dominant factor have been studied and different procedures for testing have been compared (see Nandukumar, 1994). Procedures like those discussed there were not used for this study.

The second step involved using the BICAL3 program to obtain the ability estimates for the examinees and the difficulty and discrimination coefficients for the test items. After the first run, items which did not fit the model as determined by a t test and examinees whose scores did not fit the model, again determined by a t test, were removed from a subsequent run used to calibrate the test items. The estimate of the ability of each subject was noted. Those examinees whose ability levels were one standard deviation or more below the mean were placed in ability group one. Examinees who scored between one standard deviation below the mean and the mean were placed in ability group two. Examinees who scored between the mean and one standard deviation above the mean were placed in ability group three. Performance level group 4 consisted of those examinees who scored more than one standard deviation above the mean.



The third step in this investigation was to remove a sample from the group to train the neural net. The neural net software used was NeuralWorks Professional II/Plus running under MS-DOS 6.2 for Windows (Neuralware, 1993). The response pattern for the item was used as input, and the group placement determined from the BICAL3 program became the desired output. After the neural net was trained, the weights were saved.

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Step four involved using samples of examinees for which the response pattern and the group placement were known but samples that had not been used in training the net. The neural net was applied to these samples using weights calculated from step three. The success ratio, the ratio of the number of times the neural net placed an examinee in the correct group to the number of examinees in the group was calculated.

## Results

The results of the principal components analysis identified the potential for the existence of three or four factors. The Scree test along with a comparison of different principal axis solutions led to the interpretation of a three factor solution. The results of the principal components analysis are reported in Table 1.

Insert Table 1 about here

Although there were eight eigenvalues that were equal to or greater than 1.00, only three appeared to represent interpretable factors. The principal axis analysis for a three-factor solution yielded the eigenvalue information reported in Table 2.

Insert Table 2 about here

In observing the factor structure resulting from the Varimax rotation, it was determined that 18 of the 40 items loaded primarily on Factor 1, with 14 of the 18 loadings being greater than .30; twelve of the items loaded primarily on Factor 2, with 10 of the 12 loadings being greater than .30; and 10 of the items loaded primarily on Factor 3 with three of the ten items having loadings greater than .30. Five of the items belonging to Factor 2 also had loadings on Factor 1 that were greater than .25. Additionally, one other item belonging to Factor 2 loaded on Factor 3.

On the basis of the factor analyses results, it was concluded that although the factor analyses did not produce a strong solution and there are probably two weak but interpretable secondary



factors, the evidence does support (in a limited way) the existence of a dominant dimension (see Hamilton et al., 1991).

The BICAL3 procedure was initially calibrated on scores ranging between 40% and 90% correct for the 40-item test. Nineteen examinees had scores above 36 and 297 had scores below 16. Therefore, this calibration of the test was performed with 1.299 examinees. A decision was made to remove items for which the t test statistic had an absolute value greater than 2.00. Similarly, examinees were removed from the calibration if the absolute value of the corresponding t test statistic for testing the fit of an examinee to the model was greater than 1.50. Items 6, 8, 19, 27, and 39 were removed as a result of the poor fit. Seventy-two examinees were removed as a result of not fitting the model. Five additional examinees were removed from the data set because they lacked identification numbers. A reanalysis resulted in the removal of six additional items: 20, 22, 23, 32, 33, and 34. Therefore, the final analysis was based on 29 of the 40 original items. The minimum and maximum score values for the range of inclusion were then readjusted to 12 and 28, respectively.

A second analysis of the data was conducted using all of the examinees in the original pool with the exception of the five without identification numbers. The number of examinees that scored below 12 was 205. Because no examinee scored above 28, the calibration was performed using the test results for 1,405 examinees.

The final analysis was made after eliminating examinees associated with t statistics larger in absolute value than 1.50. There were 103 examinees removed for this reason, leaving a total sample size of 1,507. After removing 205 examinees who scored below 12, 1,302 examinees remained for the final calibration. The mean ability expressed in logits for these examinees was .64 and the standard deviation was 1.05.

Presented in Table 3 are the items, item difficulties, item discrimination indices, and standard deviations. The mean difficulty index for the 29 items was 0.00 with a standard deviation of 1.54. The mean discrimination index was 1.07 with a standard deviation of 0.19.

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Insert Table 3 about here	
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The test characteristic curve is presented in Figure 4. The reader should note the data summarized in Figure 4 provides the ability estimate expressed in logits along with the corresponding raw score.

Insert Figure 4 about here



On the basis of the estimated performance level for each examinee, the examinees were then classified as belonging to one of four performance level groups. Performance level groupings were defined as: Group 1, those with performance estimates less than -.30; Group 2, those with performance levels in the range of -.30 to .63 excluding .63; Group 3, those with scores in the range of .63 to 1.9, excluding 1.9; and Group 4: those with scores equal to or greater than 1.9. This is equivalent to subdividing the groups such that the 77 examinees in Group 1 were in the performance level range of scores less than one standard deviation below the mean; the 417 examinees of Group 2 were in the performance range between one standard deviation below the mean and the mean; the 632 examinees of Group 3 were in the performance level range of the mean to one standard deviation above the mean; and the 176 examinees of Group 4 scored at or higher than one standard deviation above the mean.

The BICAL3 program produces a file of examinees whose item responses were used in the calibration process. This file contains the performance score, recorded in logits, for each examinee. Because those examinees who had raw scores below 12 were excluded, the number of examinees in Group 1 is smaller than for the other groups. This resultant file was then matched with the original file of responses that also included the examinee identification code. the examinee's item response pattern, and the performance score for the reduced item set. An additional program written by the investigators produces yet another file that contains the response pattern for each examinee for the reduced 29 item test and a vector of zeroes and ones to indicate group membership.

The neural net consisted of an input layer with 29 nodes (one for each item), an output layer with four nodes (one for each performance group), and one hidden layer. For this particular analysis, 10 nodes were selected to be in the one hidden layer.

The neural net was trained with 400 examinees randomly selected from the 1,302 subjects used to calibrate the 29 item test. After the weights were established, two different independent samples of 200 were randomly chosen from the remaining 902 examinees. The results of the classification for each sample are shown in Table 4.

## Insert Table 4 about here

## Conclusions

The output from the NeuralWorks software is provided in Appendix A. The data for each examinee appears in one of two lines. The first line is the group placement as obtained from the BICAL3 procedure. The second line contains the output node values from the NeuralWorks software. If the group indicator code (1) of line one appears directly above the value closest to 1.0 in the second line, the classifications correspond and a success was obtained. If this is not the case, the NeuralWorks placement of the examince is considered a failure.



The neural net procedure did manage to classify 80% of the subjects into the performance level groupings determined by the BICAL3 program. The most often missed classification was in the lowest performance level group. It is quite possible the examinees in this group managed to correctly answer some of the items with greater difficulty indices by guessing. This group also had the least number of subjects because of the cut-off point for performing the test calibration with BICAL3. Examinees having fewer than 12 items correct were not used in the calibration process. Therefore the neural net may not have been sufficiently trained to recognize examinees who would fall into this group.

Another difficulty was that the standard error of measurement for the ability of the examinee may have been too high. This would suggest that further work on the test may be needed and that the 80% success ratio by the neural net is the best one could expect.

It is quite possible that varying the parameters associated with the neural net may improve its performance. Changing the number of nodes in the hidden layer or increasing the number of hidden layers are possible variations from what the researchers have done that would improve the success ratio. The function used does not have to be the sigmoid function. Any function whose derivative can be expressed in terms of the original function and is bounded above and below is a candidate. The hyperbolic tangent is one such function.

This research does indicate that the neural net may be applied to testing. Although the neural net used in this research was trained to recognize an answer to an item as either correct or incorrect, it is possible to train a neural net to recognize that an item can be correct, incorrect or omitted. A subject could then be classified having been given a small subset of the available items.

Another application would be to train the neural network on a small number of items with widely varying difficulty indices. The examinees could be classified into groups using the neural net. At this point, examinees in a particular group could be given items with difficulty levels suitable for the group to obtain estimates of the ability of each subject.

It should be noted that the investigators did not write the test instrument used for this research. Although classical difficulty and discrimination indices along with reliability information has been used, this instrument was constructed by individuals having limited measurement expertise. The investigators were given the data base in response to a request made on the basis of believing this type of data would be appropriate for the procedure of interest. An added difficulty was that the more recent IRT programs were not available. It may well be that future investigations using more recent programs and a stronger test instrument may produce more encouraging results.



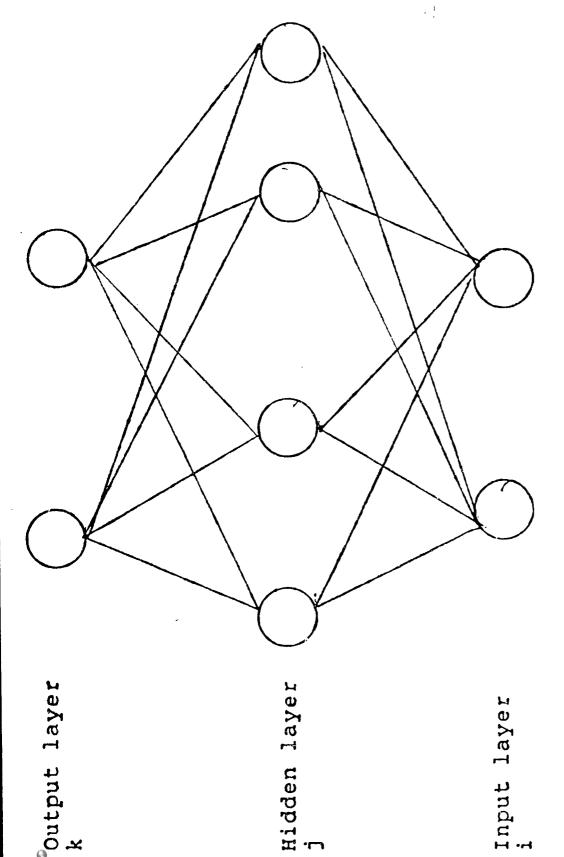
## Works Cited

- Gustafson, Steven. (1989). <u>Neural Networks: Review of current technology</u>. (Tutorial Notes). 5th annual aerospace applications of artificial intelligence conference. AAAIC. Dayton, Ohio.
- Hamilton, Ronald K. Swaminathan, H. and Rogers, H., Jane. (1991). Fundamentals of item response theory. Newbury Park, CA. Sage Publications.
- Mead, Ronald J., Wright, Benjamin D., & Bell, Susan R. (1979). BICAL-3 [computer program]. Adapted for the VAX/VMS. University of Chicago. Chicago, Illinois.
- Nandakumar, Ratna. (1994) Assessing dimensionality of a set of item responses--Comparison of different approaches. <u>Journal of Educational Measurement</u>. 31, 1, 17 35.
- Nelson. C. V. and Neff. Kathryn J. (1991). <u>Comparing and contrasting neural net solutions</u> to <u>classical statistical solutions</u>, (ERIC Document Reproduction Service No. ED 326 377).
- NeuralWorks Professional II/Plus. (1993). [computer program]. Version MS-DOS 6.2 for Windows. NeuralWare, Inc. Penn Center West, Building IV, Suite 227, Pittsburgh, Pennsylvania.
- Rosenblatt, D., Lelu, A., & Georgel, A. (1989, October). <u>Learning in a single pass</u>: <u>A neural model for principal components analysis and linear regression</u>. Paper presented at the First IEE International Conference on Artificial Neural Networks, found in the transactions published by the Institution of Electrical Engineers, Short run Press 1.td.. Great Britain. pp. 252-256.
- Scalia, F., Marconi, L., Ridella, S., Arrigo, P., Mansi, C., & Mela, G. S. (1989, October).

  An example of back propagation: Diagnosis of Dyspepsia. Ibid. pp. 332-335.
- SPSSX. [computer program] Release 4.1 for the VAX/VMS. SPSS Inc., Chicago, Illinois.



Soutput layer



ı)

Figure 1

Input layer

$$\Delta w_{jk} = -\eta \frac{\partial E}{\partial w_{jk}}$$

$$\frac{\partial E}{\partial \mathbf{w}_{,jk}} \ = \ -\frac{\partial E}{\partial \mathbf{z}_k} \ \cdot \frac{\partial \mathbf{z}_k}{\partial \mathbf{w}_{,jk}}$$

$$\frac{\partial z_k}{\partial w_{,jk}} = y_j$$

$$\frac{\partial E}{\partial z_k} = \frac{\partial E}{\partial y_k} \cdot \frac{\partial y_k}{\partial z_k}$$

$$\frac{\partial E}{\partial \textbf{y}_k} \ = \ \textbf{d}_k \ - \ \textbf{y}_k$$

$$\frac{\partial y_k}{\partial z_k} = f'z_k$$

Therefore,  $\Delta w_{jk} = -\eta (d_k - y_k) f' z_k y_j$ 

Let 
$$\delta_k = (y_k - d_k)f'(z_k)$$

Then 
$$\Delta w_{jk} = \eta \delta_k y_j$$

FIGURE 2



$$\Delta w_{ij} = -n \frac{\partial E}{\partial w_{ij}}$$

$$\frac{\partial E}{\partial w_{ij}} = \frac{\partial E}{\partial z_{j}} \cdot \frac{\partial z_{j}}{\partial w_{ij}}$$

$$\frac{\partial z_j}{\partial w_{ij}} = y_i$$

$$\frac{\partial E}{\partial z_{j}} = \sum_{k} \frac{\partial E}{\partial z_{k}} \cdot \frac{\partial z_{k}}{\partial z_{j}}$$

$$\frac{\partial \mathbf{Z}_{i}}{\partial z_{j}} \mathbf{K} = \frac{\partial z_{k}}{\partial \mathbf{y}_{j}} \cdot \frac{\partial \mathbf{y}_{j}}{\partial z_{j}}$$

$$\frac{\partial E}{\partial z_k} = -\delta_k$$

$$\frac{\partial z_k}{\partial y_j} = w_{jk}$$

$$\frac{\partial y_j}{\partial z_j} = f'(z_j)$$

So 
$$\Delta w_{ij} = \eta (\sum_k \sigma_k |w_{jk}\rangle) f'(z_j) y_i$$

FIGURE 3

Table 1
Summary Statistics for the Principal Components Analysis

Factor	Eigenvalue	Percentage of Variance	Cumulative Percentage
1	6.75	16.9	16.9
2	1.55	3.9	20.8
3	1.44	3.6	24.4
4	1.13	2.8	27.2
5	1.09	2.7	29.9
6	1.06	2.7	32.6
7	1.05	2.6	35.2
8	1.00	2.5	32.7

Table 2
Summary Statistics for the Principal Axis Analysis

Factor	Eigenvalue	Percentage of Variance	Cumulative Percentage of Variance
1	5.99	15.0	15.0
2	0.75	1.9	16.8
3	0.60	1.5	18.3



Table 3

Item Parameter Estimates for the 29 Retained Items

Item	Difficulty	Standard Error	Discrimination
1	-2.22	0.13	1.47
2	-1.08	0.08	1.13
3	<b>-</b> 0.93	0.08	0.93
4	-0.26	0.07	0.87
5	-0.23	0.07	0.76
7	-0.16	0.07	1.05
9.	-1.04	0.08	0.98
10	-0.27	0.07	1.22
11	-2.39	0.13	1.15
12	-2.72	0.15	0.63
13	-0.83	0.08	1.44
14	-2.14	0.12	1.21
15	-1.31	0.09	1.19
16	0.03	0.06	1.35
17	-1.19	0.09	1.18
18	-0.55	0.07	0.96
21	-0.72	0.08	0.85
24	0.93	0.06	1.14
25	1.62	0.06	1.16
26	1.14	0.06	1.09
28	1.96	0.07	0.92
29	3.24	0.09	0.92
30	0.28	0.06	1.12
31	1.12	0.06	0.91
35	2.19	0.07	1.07
36	2.18	0.07	1.04
38	1.83	0.06	1.09
4()	1.71	0.06	1.08
Mean	0.00		1.07
S.D.	1.54		0.19



Table 4

A Summary of the Classification Success Using a Neural Net

Sample	N o f Successes	N of Failures	Success Ratio
1	160	40	.800
2	161	39	.805



APPENDIX A

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	0.000000 0.4896920	1.0000000 0.5505390	0.0000000 0106290
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		1.0000000 0.7748410	0.0000000 0259780
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	0.000000 0.1526000	1.0000000 0.8396160	0.0000000 0383940
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	1.0000000 0.7230210	0.0000000 0152420	0.0000000 0168880
1.0000000 0.0183160	0.0000000 0.9672820	0.000000 0.0145510	0.0000000 0141810
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0.1632350         0.5202130         0.3033040        0082900           0.0000000         1.0000000         0.0000000         0.0000000           0.0753700         0.8464370         0.0381860         0.0307210           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         1.0000000        0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         0.0000000         1.0000000         0.0000000           0.0247490        0231610         0.4854960         0.4832060           0.0000000         0.1930220         0.9470090        0280440           0.0000000         0.1930220         0.9470090        0455570           0.0000000         1.0000000         0.0000000        00494940           0.0000000         1.0000000         0.0000000        00494940           0.0000000         0.03276140         0.6735240         0.0044190        04555		•	=	
0.0753700         0.8464370         0.0381860         0.0307210           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         1.0000000        1167540         0.8680350           0.0000000         1.0000000        0000000         0.0000000          1239510         0.7765430         0.3739290        0303650           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         0.5799160         0.5521650        0133690           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         0.3516440         0.1645830         0.3785030           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         0.1930220         0.9470090        0280440           0.0000000         0.0000000         1.0000000         0.0000000           0.1391560         0.2827260         0.9429400        0455570           0.0000000         1.0000000         0.0000000         0.0000000           0.3276140         0.6735240         0.004199        049940				
0.2369020        0021800        1167540         0.8680350           0.0000000         1.0000000         0.0000000         0.0000000          1239510         0.7765430         0.3739290        0303650           0.0000000         0.0000000         1.0000000         0.0000000          0896620         0.5799160         0.5521650        0133690           0.0000000         0.0000000         1.0000000         0.0000000          0108270         0.3516440         0.1645830         0.3785030           0.0000000         0.0000000         1.0000000         0.0000000           0.0247490        0231610         0.4854960         0.4832060           0.0000000         0.1930220         0.9470090        0280440           0.0000000         0.1930220         0.9470990        0280440           0.0000000         0.2827260         0.9429400        0455570           0.0000000         1.0000000         1.0000000         0.0000000           0.3276140         0.6735240         0.004190        0494940           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         0.0000000         1.0000000         0.0000000				
1239510				
0896620				
0108270				
0.0247490        0231610         0.4854960         0.4832060           0.0000000         0.0000000         1.0000000         0.0000000          1059060         0.1930220         0.9470090        0280440           0.0000000         0.0000000         1.0000000         0.0000000          1391560         0.2827260         0.9429400        0455570           0.0000000         1.0000000         0.000000         0.0000000           0.3276140         0.6735240         0.0044190        0494940           0.0000000         0.0000000         1.0000000         0.0000000          0658360         0.1351030         0.9006810         0.0386860           0.0000000         0.0000000         1.0000000         0.0000000           0.0436330         0.0942310         0.9679430        0145720           0.0000000         0.0000000         0.0596430         0.9122370           0.0000000         1.0000000         0.00143900         1.0000000           1.0000000         0.00143900         1.0000000         0.00143900           1.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.00000000         0.0000000         0.0000000				
1059060				
1391560         0.2827260         0.9429400        0455570           0.0000000         1.0000000         0.0000000         0.0000000           0.3276140         0.6735240         0.0044190        0494940           0.0000000         0.0000000         1.0000000         0.0000000          0658360         0.1351030         0.9006810         0.0386860           0.0000000         0.0000000         1.0000000         0.0000000          0436330         0.0942310         0.9679430        0145720           0.0000000         0.0000000         0.0596436         0.9122370           0.0000000         1.0000000         0.00143900         0.00143900           1.0000000         0.0000000         0.00143900         0.0000000           0.5077340         0.6031460        0489550        0654520           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         0.2518700         0.8009280        0096210           0.0000000         1.0000000         0.0000000         0.0000000           0.0835200         0.9930740        2565130         0.2325920           0.0000000         1.00000000         0.0000000         0.0000000		<u>-</u>		•
0.3276140       0.6735240       0.0044190      0494940         0.0000000       0.0000000       1.0000000       0.0000000        0658360       0.1351030       0.9006810       0.0000000         0.0000000       0.0000000       1.0000000       0.0000000        0436330       0.0942310       0.9679430      0145720         0.0000000       0.0000000       0.0000000       1.0000000         0.0352060      0362680       0.0596430       0.9122370         0.0000000       1.0000000       0.0617200       0.0143900         1.0000000       0.7935200       0.0617200       0.0143900         1.0000000       0.6031460      0489550      0654520         0.0000000       1.0000000       0.0000000       0.0000000         0.0000000       1.0000000       0.0000000       0.0000000         0.0000000       0.2518700       0.8009280      0096210         0.0000000       1.0000000       0.0000000       0.0000000         0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.1578580      0323490         0.0000000       1.00000000       0.1578580      0323490				
0658360         0.1351030         0.9006810         0.0386860           0.0000000         0.0000000         1.0000000         0.0000000          0436330         0.0942310         0.9679430        0145720           0.0000000         0.0000000         1.0000000         1.0000000           0.0352060        0362680         0.0596430         0.9122370           0.0000000         1.0000000         0.0017200         0.0143900           1.0000000         0.7935200         0.0617200         0.0143900           1.0000000         0.0000000         0.0000000         0.0000000           0.5077340         0.6031460        0489550        0654520           0.0000000         1.0000000         0.0000000         0.0000000           0.0099730         0.9885670        0207670         0.0133080           0.0000000         0.0000000         1.0000000         0.0000000          0235850         0.2518700         0.8009280        0096210           0.0000000         1.0000000         0.0000000         0.0000000           0.2835200         0.9930740        2565130         0.2325920           0.0000000         1.00000000         0.1578580        0323490		<del></del> ·		
0436330       0.0942310       0.9679430      0145720         0.0000000       0.0000000       1.0000000       1.0000000         0.0352060      0362680       0.0596436       0.9122370         0.0000000       1.0000000       0.0000000       0.0000000         0.1274540       0.7935200       0.0617200       0.0143900         1.0000000       0.0000000       0.0000000       0.0000000         0.5077340       0.6031460      0489550      0654520         0.0000000       1.0000000       0.0000000       0.0133080         0.0000000       0.9885670      0207670       0.0133080         0.0000000       0.2518700       0.8009280      0096210         0.0000000       0.0266770       0.2444060       0.6994470         0.0000000       1.0000000       0.0000000       0.0000000         0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.1578580      0323490         0.0000000       1.0000000       0.0000000       0.0000000				
0.0352060      0362680       0.0596430       0.9122370         0.0000000       1.0000000       0.0000000       0.0000000         0.1274540       0.7935200       0.0617200       0.0143900         1.0000000       0.0000000       0.0000000       0.0000000         0.5077340       0.6031460      0489550      0654520         0.0000000       1.0000000       0.0000000       0.0000000         0.0099730       0.9885670      0207670       0.0133080         0.0000000       0.0000000       1.0000000       0.0000000        0235850       0.2518700       0.8009280      0096210         0.0000000       1.0000000       0.0000000       1.0000000         0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.0000000       0.0000000         0.0000000       1.0000000       0.1578580      0323490         0.0000000       1.0000000       0.0000000       0.0000000			,	
0.1274540       0.7935200       0.0617200       0.0143900         1.0000000       0.0000000       0.0000000       0.0000000         0.5077340       0.6031460      0489550      0654520         0.0000000       1.0000000       0.0000000       0.0000000         0.0099730       0.9885670      0207670       0.0133080         0.0000000       0.0000000       1.0000000       0.0000000        0235850       0.2518700       0.8009280      0096210         0.0000000       0.0266770       0.24444060       0.6994470         0.0000000       1.0000000       0.0000000       0.0000000         0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.0000000       0.0000000         0.0000000       1.0000000       0.1578580      0323490				
0.5077340       0.6031460      0489550      0654520         0.0000000       1.0000000       0.0000000       0.0000000         0.0099730       0.9885670      0207670       0.0133080         0.0000000       0.0000000       1.0000000       0.0000000        0235850       0.2518700       0.8009280      0096210         0.0000000       0.0000000       0.0000000       1.0000000        0185200       0.0266770       0.24444060       0.6994470         0.0000000       1.0000000       0.0000000       0.0000000         0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.0000000       0.0000000        0902770       0.9445130       0.1578580      0323490         0.0000000       1.0000000       0.0000000       0.0000000				
0.0099730       0.9885670      0207670       0.0133080         0.0000000       0.0000000       1.0000000       0.0000000        0235850       0.2518700       0.8009280      0096210         0.0000000       0.0000000       0.0000000       1.0000000        0185200       0.0266770       0.2444060       0.6994470         0.0000000       1.0000000       0.0000000       0.0000000         0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.0000000       0.0000000         0.0902770       0.9445130       0.1578580      0323490         0.0000000       1.0000000       0.0000000       0.0000000				
0235850				
0185200       0.0266770       0.2444060       0.6994470         0.0000000       1.0000000       0.0000000       0.0000000         0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.0000000       0.0000000         0.9902770       0.9445130       0.1578580      0323490         0.0000000       1.0000000       0.0000000       0.0000000				
0.2835200       0.9930740      2565130       0.2325920         0.0000000       1.0000000       0.0000000       0.0000000         .0902770       0.9445130       0.1578580      0323490         0.0000000       1.0000000       0.0000000       0.0000000				
0902770     0.9445130     0.1578580    0323490       0.0000000     1.0000000     0.0000000     0.0000000				



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1.0196460

-.1092820

-.0528760



0.0000000	0.0000000	1.0000000	0.0000000
·.0140000	0572210		0121940
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0.0792540	0.5489560	0.3625110	0.0028370
0.0000000	1.0000000	0.0000000	0.0000000
0.0318140		2771470	0942170
0.0000000 0.0812140	0.0000000	1.0000000 0.9271930	0.0000000
0.000000	0.0000000 0277120	1.0000000	0.0000000
0.000000	1.0000000	0.000000	0.000000
0.0904430	0.2745620	0.5141070	0.0589340
1.0000000	0.0000000 0.7703600	0.0000000 1038240	0.0000000
0.0000000	1.0000000	0.0000000	0.0000000
0.2893720		0.0362160	0029980
0.0000000	1.0000000	0.000000	0.0000000
0.0429950		0.2650390	0201180
0.0000000 0118750	0.0000000	1.0000000	0.000000 0.1123990
0.000000	0.000000	1.0000000	0.0000000
0.0109440	0.0116640	0.3237390	0.5988100
0.0000000	0.000000	1.0000000	0.0000000
0115940	0.0463710		0476840
0.000000	1.0000000	0.0000000	0.0000000
0.3726490		0606050	0717160
0.0000000	1.0000000	0.000000	0.000000
0.1904490	0.7829460	0.0423080	0042350
0.0000000	1.0000000	0.000000	0.0000000
0524160		0.1503790	0.0274210
0.0000000	0.0000000 0488510	0.000000 0.3114200	1.0000000
0.000000	0.0000000	1.0000000	0.0000000
0.1126630	0.3477900	0.5449260	0432890
1.0000000	0.000000	0.000000	0.0000000
0.1968880	0.5646750	0.2314230	
0.000000 0360440	1.0000000	0.0000000 3232770	0.0000000
0.0000000	1.0000000	0.000000	9.0000000.
0.1338660		3089040	1449850
0.000000 0.1967710	1.0000000	0.0000000 1140230	0.0000000
	<del> </del>	<del></del>	



0.0000000	0.0000000 0161900	1.0000000 1.0547690	0.0000000
0.0000000	0.0000000	1.0000000	0.0000000
	0.1215040	0.8810600	0.0558300



0.0000000	1.0000000	0.000000	0.0000000
0004700		0752660	0.0126520
0.0000000	1.000000C	0.0000000	0.0000000
0.1623/30	0.8240900	0.0083980	0.0162730
0.0000000	1.0000000	0.0000000	0.0000000
0236310	0.3071430	0.5201930	0.1164590
n.0000000	0.0000000	1.0000000	0.0000000
p.0128960	0422250	1.0484120	0180650
0.0000000	0.0000000	1.0000000	0.0000000
0.01/1160	0366690	0.9977960	0.0323950
0.0000000	1.0000000	0.0060000	0.000000
0.2300700	0.6945310	0.0824030	0.0034330
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0.0616810	1.1552629	1909430	0311630
n.0000000	1.0000000	0.0000000	0.0000000
0170160	0.5427440	0.5450770	0769460
0.0000000	1.0000000	0.0000000	0.0000000
0.1170650	0.8895970	0.0059570	0019750
0.0000000	0.0000000	1.0000000	0.0000000
	0.0500930	0.9724050	0075140
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0.4119790	0.9896040	2251980	0248270
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0.0451350	0.1226840	0.7767060	0.0270430
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0.0000000	0.0000000	1.0000000	0.0000000
0.0564860	0821140	0.4565970	0.5749920
0.0000000	1.0000000	0.0000000	0.0000000
0.0108520		3004060	1289750
0.0000000	1.0000000	0.0000000 3168890	0.0000000



0.0000000				
0.25339340         0.7361050        0280490         0.0025950           0.0000000         0.0000000         1.0000000         1.0000000           0.0022960        0714750         0.2770760         0.7987600           0.0000000         0.0000000         0.0000000         0.0000000           0.0050530         0.0378780         0.9863670        0307670           0.0000000         1.0000000         0.0000000         0.0000000           0.00779300         0.2168990         0.7682240        0944150           0.0000000         1.0000000         0.0000000         0.0000000           0.1854540         0.8729050        0866720        0063430           0.0000000         0.1944960         0.8020800        0158430           0.0020000         1.0000000         0.0000000         0.0000000           0.0020520         0.1580040         0.6552310        0447070           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0552310        0447070           0.0000000         1.0000000         0.0000000         0.0000000           0.0181150         0.5153530         0.5573140        1102670				
0.000000			• • • • • • •	
0.0050330         0.0378780         0.9863670        0307670           6.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.7682240        0944150           0.0000000         1.0000000         0.0000000         0.0000000           0.1854540         0.8729050        0866720        0063430           0.0000000         0.0000000         1.0000000         0.0000000           0.0125800         0.1944960         0.8020800        0158430           0.000000         1.0000000         0.0000000        0050000           0.000000         1.0000000         0.0000000        0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000				
0.0779300         0.2168990         0.7682240        0944150           0.0000000         1.0000000         0.0000000         0.0000000           0.1854540         0.8729050        0866720        0063430           0.0000000         0.0000000         1.0000000         0.0000000           0.000000         0.1944960         0.8020800        0156430           0.000000         1.0000000         0.0000000        0506970           0.0000000         1.0000000         0.0000000         0.0000000           0.2005920         0.1580040         0.6552310        0447070           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000          0181150         0.5153530         0.5573140        1102570           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0050000         1.0000000         0.0000000         0.0000000			<del>-</del> · -	
0.1854540         0.8729050        0866720        0063430           0.0000000         0.0000000         1.0000000         0.0000000           0.025800         0.1944960         0.8020800        0156430           0.000000         1.0000000         0.0000000         0.0000000           0.000000         1.0000000         0.0000000         0.0000000           0.000000         1.0000000         0.0000000         0.0000000           0.000000         0.0000000         1.0000000         0.0000000           0.000000         0.0000000         1.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.00000000         0.0000000         0.0000000				
0.0125800         0.1944960         0.8020800        0156430           0.0000000         1.0000000         0.0000000         0.0000000          0994130         0.7273070         0.4036640        0506970           0.0000000         1.0000000         0.0000000         0.0000000           0.2005920         0.1580040         0.6552310        0447070           0.0000000         0.0000000         1.0000000         0.0000000           0.0167030        0468040         0.7222720         0.3129020           0.0000000         1.0000000         0.5573140        1102670           0.0000000         1.0000000         0.5573140        1102670           0.0000000         1.0000000         0.5573140        1102670           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0000000         1.0000000         0.0000000         0.0000000           0.0650990         0.4175590         0.5082210         0.0138570           0.0000000         1.0000000         0.0000000         0.0000000           0.0590370         0.1315090         0.9425830        0186320				
0994130         0.7273070         0.4035640        0506970           0.0000000         1.0000000         0.0000000         0.0000000           0.2005920         0.1580040         0.6552310        0447070           0.0000000         0.0000000         1.0000000         0.0000000           0.0167030        0468040         0.7222720         0.3129020           0.0000000         1.0000000         0.0000000         0.0000000          0181150         0.5153530         0.5573140        1102670           0.0000000         1.0000000         0.0000000         0.0000000          0901460         1.2201771        1431250        0999240           0.0000000         0.0000000         1.0000000         0.0000000           0.0000000         1.0000000         1.0000000         0.0000000          1491260         0.2494090         0.9499740        0115150           0.0000000         1.0000000         0.0000000         0.0000000           0.0650990         0.4175590         0.5082210         0.0138570           0.0000000         1.0000000         0.0000000         0.0000000           0.0375100        0242250         0.1327700         0.8986340				
0.2005920         0.1580040         0.6552310        0447070           0.0000000         0.0000000         1.0000000         0.0000000           0.0167030        0468040         0.7222720         0.3129020           0.0000000         1.0000000         0.0000000         0.0000000          0181150         0.5153530         0.5573140        1102670           0.0000000         1.0000000         0.0000000         0.0000000          0901460         1.2201771        1431250        0999240           0.0000000         0.0000000         1.0000000         0.0000000           0.0000001         0.0148940         0.9305940         0.0413430           0.0000002         1.0000000         0.0000000         0.0000000           -1491260         0.2494090         0.9499740        0115150           0.0000000         1.0000000         0.0000000         0.0000000           0.0650990         0.4175590         0.5082210         0.0138570           0.0000000         1.0000000         1.0000000         0.0000000           0.0016430         0.0234620         0.9985090        0203840           0.006         1.00000000         0.0375900        0186320		_		
0.0167030        0468040         0.7222720         0.3129020           0.0000000         1.0000000         0.0000000         0.0000000          0181150         0.5153530         0.5573140        1102670           0.0000000         1.0000000         0.0000000         0.0000000          0901460         1.2201771        1431250        0999240           0.0000000         0.0000000         1.0000000         0.0000000           0.0009210         0.0148940         0.9305940         0.0413430           0.0000000         1.0000000         0.0000000         0.0000000          1491260         0.2494090         0.9499740        0115150           0.0000000         1.0000000         0.0000000         0.0000000           0.0650990         0.4175590         0.5082210         0.0138570           0.0000000         0.0000000         1.0000000         0.0000000           0.0016430         0.0234620         0.9985090        0203840           0.0000000         1.0000000         0.0000000         1.0000000           0.0375100        0242250         0.1327700         0.8986340           0.0000000         0.1482960         0.4119930         0.4077360		-	- •	
0181150				
0901460				
0.0009210       0.0148940       0.9305940       0.0413430         0.0000000       1.0000000       0.0000000       0.0000000        1491260       0.2494090       0.9499740      0115150         0.0000000       1.0000000       0.0000000       0.0000000         0.0650990       0.4175590       0.5082210       0.0138570         0.0000000       0.0000000       1.0000000       0.0000000         0.0016430       0.0234620       0.9985090      0203840         0.0000000       1.0000000       0.9425830      0186320         0.06       100       0.0000000       0.0000000       1.0000000        0375100      0242250       0.1327700       0.8986340         0.0000000       0.0000000       0.4119930       0.4077360         0.0000000       1.0000000       0.0000000       0.0000000         0.1743700       0.2678430      0883330       0.5021640         0.0000000       0.0000000       1.0539200      0093870         0.0000000       0.0000000       1.0539200      0093870				
1491260				
0.0650990         0.4175590         0.5082210         0.0138570           0.0000000         0.0000000         1.0000000         0.0000000           0.0016430         0.0234620         0.9985090        0203840           0.0000000         1.0000000         0.0000000         0.0000000          0590370         0.1315090         0.9425830        0186320           0.06         100         0.0000000         0.0000000         1.0000000          0375100        0242250         0.1327700         0.8986340           0.0000000         0.0000000         0.4119930         0.4077360           0.0000000         1.0000000         0.0000000         0.0000000           0.1743700         0.2678430        0883330         0.5021640           0.0000000         0.0000000         1.0539200        0093870           0.0000000         0.0000000         1.0539200        0093870				
0.0016430       0.0234620       0.9985090      0203840         0.0000000       1.0000000       0.0000000       0.0000000        0590370       0.1315090       0.9425830      0186320         0.06       100       0.0000000       0.0000000       1.0000000        0375100      0242250       0.1327700       0.8986340         0.0000000       0.0000000       1.0000000       1.0000000        0376920       0.1482960       0.4119930       0.4077360         0.0000000       1.0000000       0.0000000       0.5021640         0.0000000       0.0000000       1.0000000       0.0000000         0.0273300      0626300       1.0539200      0093870         0.0000000       0.0000000       1.0000000       0.0000000				
0590370       0.1315090       0.9425830      0186320         0.06				
03751000242250 0.1327700 0.8986340  0.0000000 0.0000000 0.0000000 1.00000000376920 0.1482960 0.4119930 0.4077360  0.0000000 1.0000000 0.0000000 0.0000000 0.1743700 0.26784300883330 0.5021640  0.0000000 0.0000000 1.0000000 0.0000000 0.02733000626300 1.05392000093870  0.0000000 0.0000000 1.0000000 0.0000000				
0376920       0.1482960       0.4119930       0.4077360         0.0000000       1.0000000       0.0000000       0.0000000         0.1743700       0.2678430      0883330       0.5021640         0.0000000       0.0000000       1.0000000       0.0000000         0.0273300      0626300       1.0539200      0093870         0.0000000       0.0000000       1.0000000       0.0000000				
0.1743700       0.2678430      0883330       0.5021640         0.0000000       0.0000000       1.0000000       0.0000000         0.0273300      0626300       1.0539200      0093870         0.0000000       0.0000000       1.0000000       0.0000000				
0.0273300    0626300     1.0539200    0093870       0.0000000     0.0000000     1.0000000     0.0000000				



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0437460	1.2994630	3112980	0962960
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0.1066970	0.1813060	0.1073190	0.5122030
1.0000000 0.0763510		0.0000000 ~.0619840	0.0000000
0.0000000	0.0000000	1.0000000	0.0000000
0386240		1.0248880	0098790
		0.0000000 0.0204170	0.000000 0.0191930
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0243030	0.0517370	0.9908970	0230040
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0306710	0.4048010	0.6808700	0695500
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0449740	0268800	0.9783730	0.1046820
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0.0000000	0.0000000	1.0000000	0.0000000
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0104880		0.0020060	0300410
0.0000000	0.0000000	1.0000000	0.0000000
0263290	0.1922150	0.8408990	0218800
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0019640	0656540	0.6196660	0.4783860
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0093280	0.8176180	0.2444830	0428380
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0338950	1.1781790	1937680	0356460
0.0000000 0.2397830	1.0000000	0.0000000 1478490	0.0000000 1105000
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0396250	0.1421230	0.9229780	0202230
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0.2539330	0.8907770	0730520	0369690
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0.0000000 0547690	0.000000 0.0661670	1.0000000	0.000000 0118300
0.0000000 0.1421910	1.0000000	0.0000000 0764240	0.0000000 0.0028670
0.0000000 0.1571220	0.0000000 0.1440610	1.0000000	



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0.0118020	0.1295640		0121790
0.0000000	1.0000000	0.0000000	0.0000000
0.2081740	0.6489080	0.1239350	0.0135770
	1.0000000	0.0000000	0.0000000
	0.7165520	0457390	0030080
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0.0123180	0.0246940	0.9857600	0099650
<u> </u>	1.0000000	0.0000000	0.000000
	1.1548600	1758400	0.0148730
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0.1351400	0.1558790	0.5298040	0.0850240
0.0000000	0.0000000	1.0000000	0.000000
0.0157510	0676410	0.5745950	0.4977300
- · <del>-</del>	1.0000000	0.0000000 2173520	0.000000 0.6791070
0.0000000	0.0000000	1.0000000	0.0000000
0020980	0083940	1.0465291	0296300
1.0000000	0.0000000		0.0000000
0430980	1.0776790		0056610
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0191860		0.7998910	0.3331940
0.000000	0.0000000	1.0000000	0.0000000
0.0679080		0.5446730	0.0197240
0.000000	1.0000000	0.0000000	0.0000000
0.4103760	1.1788830	2950510	1180200
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0.0622940	0311900	0.0217160	0.9175530
0.0000000	1.0000000	0.0000000	0.0000000
0.1471840	0.8476030	0538350	0649750
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0.0000000		0.000000	1.0000000
0078600		0.3019140	0.7455280
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0.2547920	0.9447780	1245050	



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0068090	0.1033760	0.9253000	0101330
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0.0473610	0.5879930	0.3226870	
0.0000000	1.0000000	0.0000000	0.0000000
0649800	1.0624570	0058420	0190000
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0.1462670		0121730	0.1008870
0.0000000	1.0000000	0.0000000	0.000000
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0.0000000	0.000000	1.0000000	0.0000000
	0.2798940	0.7783660	0143480
0.0000000	0.0000000	1.0000000	0.0000000
0277070	0.0150340	1.0229830	0158050
0.0000000	0.0000000	1.0000000	0.000000
0341150	0.0194720		0.0030740
0.0000000	1.0000000	0.000000	0.000000
0.0371350	0.8369770	0.1104360	0.0222160
0.0000000	1.0000000	0,000000	0.0000000
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0.2065120	1.0341330	1606380	0084220
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0.0392450	0.4688640	0.4769720	0068430
0.0000000 0783880			0.0000000 0095050
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0084090	0.0036800	1.0330060	0215820
0.0000000	0.0000000 0437350		0.000000 0.0442630
0.000000 0.0173920	0.0000000	1.0000000	0.000000 014591U



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	0.0000000	0.0000000 0.2853200	1.0000000 0.8802540	0.0000000 0588830
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	0.000000 0.0175110	1.0000000	0.0000000 0511710	0.0000000
		0.0000000	1.0000000 0.7094130	0.000000 0.3972370
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0.0000000	0.0000000	1.0000000	0.0000000
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0.2551000	0.7944080	0507880	
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0213640	0.0316690	1.0090760	
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0.0000000	1.0000000	0.0000000	0.0000000
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0.0000000	1.0000000	0.0000000	0.0000000
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